PRESS RELEASE

audio research

FINE SOUNDS GROUP

Press Release

Audio Research proudly introduces the G-series of vacuum-tube electronics, in homage to the great astronomer and scientist Galileo Galilei.

As the world's oldest continuous manufacturer of vacuum tube electronics, Audio Research builds upon its accumulated expertise gained over 44 years of high performance audio design and focuses it on a new series that provides superlative music reproduction. **GS represents a new exploration into the past of Audio Research – a continuation of refining performance in a beautiful design aesthetic**. Inspired by classic Audio Research components from the 1970's, the new appearance is modern yet comfortingly familiar. Much as Audio Research has expanded the boundaries of what is possible in music reproduction, the GS series adds a visual refinement and elegance befitting the performance of this series.

The G-series will debut with three products. The GSPre is a full-function vacuum-tube preamplifier combining a line and phono sections, with a revelatory headphone section for more intimate listening. Built around a sophisticated balanced circuit, with great connectivity and ease of use, the GSPre provides great flexibility in addition to its sublime sound.

The GS150 vacuum-tube stereo amplifier is able to drive virtually any loudspeaker with a sense of dynamics and authority that belie its power rating of 150 watts-per-channel. There is an effortless finesse that can bring any music collection to life.
Three large analog meters display output power for each channel, and power line voltage. This is the first Audio Research product to utilize the new KT150 output tube.

Integrating a preamplifier, amplifier, phono stage, and digital-to-analog converter all in one chassis, the vacuum-tube GSi75 unites with your favorite speaker to deliver a singular and simple solution to control your listening system. Unlike other integrated designs that make performance-sacrificing compromises to fulfill a price point or form factor, the GSi75 harnesses the power and technologies developed by Audio Research into an authoritative platform to reveal the glorious performance contained in your media, digital or analog. The new KT150 output tube is also featured in the GSi75.

True to tradition, **all three pieces are hand crafted in Audio Research's Minnesota facility.** They are scheduled to ship in the third quarter of 2014.

Called ‘the father of modern astronomy’, Galileo Galilei was a scientist, astronomer, mathematician and philosopher - **a man in search of new worlds and scientific methodology to bear light upon his findings**. Not only curious about scientific discovery, Galileo also crafted the tools needed to assist in his work - grinding his own lenses for use in his telescope designs afforded him the most advanced optics in his time. Through these telescopes, he was able to see things never before witnessed – craters on the moon, the largest moons of Jupiter, and spots on the sun. But he not only witnessed these new findings, he systematically documented them and understood, over time, the orbit of the planets around the sun, the phases of Venus, and numerous other discoveries. His technique and methodology became the fundamental platform for modern astronomy and scientific research.

Considered one of the founders of the modern high fidelity audio industry, William Zane Johnson built his first ‘commercial’ amplifier in 1949, and shortly thereafter, started his first company, Electronic Industries. He ran this company for nearly twenty years before starting Audio Research. In that time, Bill continued building products, and modifying others to improve their performance. It was during this period in history when the transistor was becoming more prevalent in electronics, slowly replacing vacuum tubes because of their lower cost, size and reliability. Against this trend, Bill believed that vacuum tubes offered substantially better sound quality and had a greater potential for development and refinement. 1970 was the first year for Audio Research, and Bill was beginning his prime years of circuit design. His determination to create components of dynamic and musical accuracy quickly established Audio Research as a leader in the audio market as an industry leader, a culture which still permeates the contemporary philosophy of the company today.

‘Bill Johnson still remains my greatest inspiration today.’ **Ward Fiebiger**, Head of Engineering, has been with Audio Research since 1978, first starting in the service and quality assurance departments. He quickly moved into the engineering department and worked constructing boards from Bill’s designs. Decades of experience working with Bill has given Ward significant insight into circuit design, though today he gives it his own special perspective. ‘The perfect amplifier would really be a straight wire with gain,’ and to that effect, Ward focuses on maintaining simple and direct circuit paths in a ‘less is more’ philosophy. He also believes in taking the best of a design and finding ways to improve upon them – either through layout, parts selection or new advances in technology – as a methodology to continuing the advancement of state-of-the-art sound reproduction. In cooperation with **Warren Gehl,** Sonic Evaluator and the ‘ears’ of Audio Research, they continue to develop some of the finest components for music reproduction available today – products we think Bill would be proud to bear the Audio Research name.

Great products always show a great personality. And, when you deal with iconic brands, you need to respect them, not to fear them. You need to analyze, understand and love them. Only if you love something deeply can you feel the need to possess it.
I have always loved Audio Research products. I always believed that their look mirrored their sonic character perfectly or, more than this, that it materialized a well-thought-out, unique vision of a product.
Concepts of neatness, rigor, purity and solidity: these are the elements that have led the way to the design of the Galileo-inspired series, elements that were taken from the past to offer an updated vision of a timeless icon.
The juxtaposition of finely brushed metal surfaces with the black control areas; symmetry; two-color knobs; the vacuum tubes left uncovered; the analog look of the meters... all the elements that shape the aesthetic language of the G-Series were “respectfully stolen” from the classic models, then mixed to achieve a new creation.
This is my homage paid to a great American icon, which I’m proud to have “served.”

Livio Cucuzza

Audio Research introduces the G-Series, an homage to the great astronomer and scientist Galileo Galilei and a new exploration into the past of Audio Research. As the world's oldest continuous manufacturer of vacuum tube electronics, Audio Research takes the collective knowledge of over 44 years of experience in high performance audio and focuses it on a new series aimed at providing the finest music reproduction. G-Series represents a continuation of refining performance in a beautiful design aesthetic. Inspired by classic Audio Research components from the 1970's, the appearance is modern yet immediately familiar. Much as Audio Research has expanded the boundaries of what is possible in music reproduction, the Galileo series adds a visual refinement and elegance befitting the performance of the series.

G150 Power Amplifier

An amplifier is the workhorse of any system - it is responsible for receiving small signals from a preamplifier or source component, and developing them into larger currents to control a loudspeaker. To that end, the GS150 has been designed to seamlessly **integrate** into any system and steadfastly **perform** its task. Challenging source material and difficult speaker loads are met with control and finesse to present a **musical landscape** of **breathtaking proportions**.

Three meters across the front panel provide a window into the operation of the amplifier and give the amplifier a striking façade. The selection of premium parts internally is reflected in the **beautiful metalwork of the chassis** and **exquisite finishes**. The circuit is design features the new KT150 power output tubes for 150 watts of effortless power delivery. A reflection of the past yet clearly a guiding light into the future of music reproduction, the GS150 is poised to deliver years of musical enjoyment.

GSPre Preamplifier

The GSPre is the nerve center of a system - not only directing signals and providing attenuation, but also interpreting and deciphering complex signals to create a musical story with the drama and intrigue befitting of your favorite songs. The job of a preamplifier is to do its **work discretely**, leaving the musical signal with as little signature as possible yet still unraveling the chapters that comprise the lyrical narratives of the source material. With decades of expertise creating some of the finest preamplifiers ever produced, the GSPre is certain to continue the legacy for which Audio Research has built their reputation.

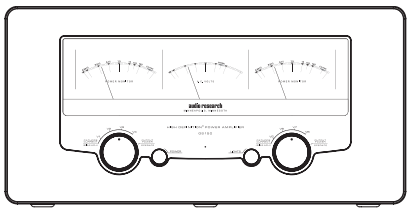
The GSPre is both a **line stage** and **phono stage**, with programmable functionality and flexibility, making it the perfect solution to adapt and grow in your system.
The phono stage is no mere afterthought, but a separate, vacuum tube-powered circuit providing enough gain for a whole variety of cartridges. When listening conditions require a more personal experience, the GSPre also has a **headphone amplifier** capable of driving a range of headphone impedances.
The front panel layout is designed to simply and clearly display all functions and information, and **integrates beautifully** with the rest of the chassis and the G-Series amplifier.

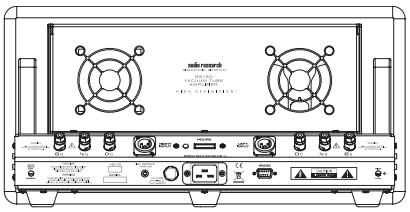
GSi75 Integrated Amplifier

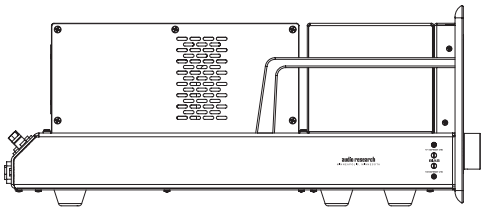
A preamplifier, amplifier, phono stage, and digital to analog converter all in one chassis, the GSi75 combines with your favorite speaker to deliver a singular and simple solution to control your listening system.
Unlike other integrated designs that make performance - sacrificing compromises to fulfill a price point or form factor, the GSi75 harnesses the power and technologies developed by Audio Research into an authoritative platform to reveal the performances in your media.

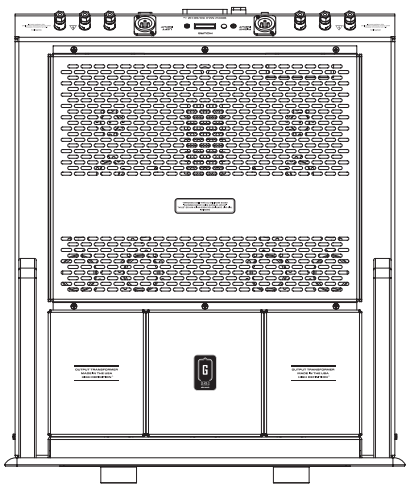
Powered with the new KT150 output tube, the GSi75 supplies finesse and control that belies the **75-watt per channel power rating**.
The digital-to-analog converter will handle almost any sampling frequency including DSD. The phono stage and headphone amplifier round out the GSi75, providing total system control and integration.
The elegant, understated industrial design will complement the rest of your system both visually and sonically.

GS150 Amplifier









POWER OUTPUT: 155 watts per channel continuous from20Hz to 20kHz. 1kHz total harmonic distortion typically 0.6% at 155 watts, below 0.03% at 1 watt.
Approximate actual power available at 'clipping' 160 watts (1kHz).
(Note that actual power output is dependent upon both line voltage and 'condition' i. e.: if power line has high distortion, maximum power will be affected adversely, although from a listening standpoint this is not very critical.)

POWER BANDWIDTH: (-3dB points) 5Hz to 80kHz.

FREQUENCY RESPONSE: (-3dB points at 1 watt) 0.5Hz to 120 kHz.

INPUT SENSITIVITY: 2.0V RMS BAL for rated output. (24 dB Bal gain into 8 ohms.)

INPUT IMPEDANCE: 300K ohms Balanced.

OUTPUT POLARITY: Non-inverting. Balanced input pin 2+ (IEC-268).

OUTPUT TAPS: 8 ohms, 4 ohms.

OVERALL NEGATIVE FEEDBACK: 14dB.

SLEW RATE: 13 volts/microsecond.

RISE TIME: 2.0 microseconds.

HUM & NOISE: Less than 0.1mV RMS – 114dB below rated output (IHF weighted, input shorted).

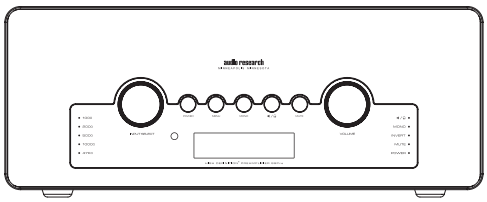
CONTROLS: Rotary selector for tube bias, Power on/off, fan speed, auto shut-off on/defeat, RS232, 12V trigger.

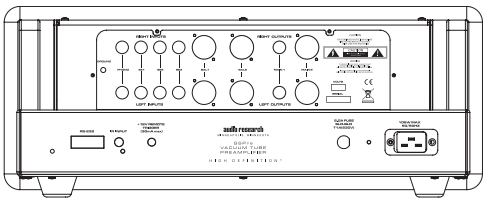
POWER SUPPLY ENERGY STORAGE:
Approximately 1040 joules.

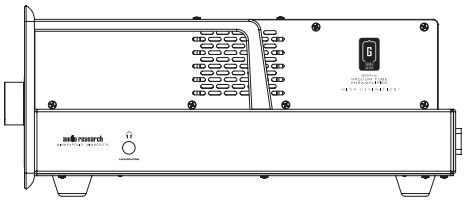
POWER REQUIREMENTS: 105-125VAC 60Hz (210-250VAC 50Hz) 730 watts at rated output, 900 watts maximum, 420 watts idle.

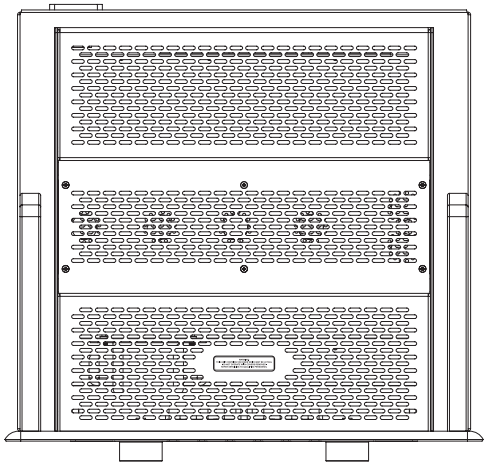
TUBES REQUIRED: 4 – Matched pair KT150 – Power Output; 4 – 6H30 Driver.

GSPre Preamplifier









FREQUENCY RESPONSE:
Line: +/-.3dB 2Hz to 80kHz; : -3dB 0.8Hz to 220KHz
Phono: +/- 0.1dB of RIAA 10Hz to 20KHz, +/-0.4dB 5Hz to 80KHz Headphone: +/- 0.05dB 20Hz to 20KHz;
: -3dB 0.8Hz to 220KHz

THD+N @ 1kHz:
Line: <.002% at 2V RMS, Bal output
Phono: <.005% at 3V RMS output, to Record output
Headphone: <.009% at 1V RMS output

GAIN @ 1kHz:
Line: 13.8 dB, Processor: 0dB
Phono: 58dB @ 1KHz to Record output
Headphone: 11.3dB

NOISE (A-WEIGHTED):
Line: <-101dBV volume at max.
Phono: <-77dBV to Record output
Headphone: <-88dBV volume at max.

CHANNEL SEPARATION @ 1kHz:
Line: > 75dB Balanced output
Phono: >70dB to Record output
Headphone: >60dB

SIGNAL TO NOISE RATIO @ 1kHz, A-WEIGHTED:
Line: >125dB Balanced output
Phono: >94dB to Record output
Headphone: >110d

INPUT IMPEDANCE: 150K ohms Balanced, 75K ohms SE; Phono impedance programmable (100, 200, 500, 1000
or 47K ohms w/200pf unbalanced)

OUTPUT IMPEDANCE @ 1kHz: 500 ohms Balanced,
250 ohms SE; <.05 ohms Headphone SE.

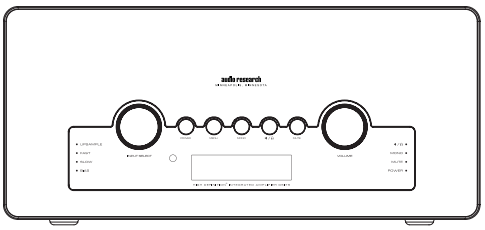
MAXIMUM INPUT:
Line: 12V RMS Balanced, 6.0V RMS SE.
Phono: 11mV RMS at 1KHz.

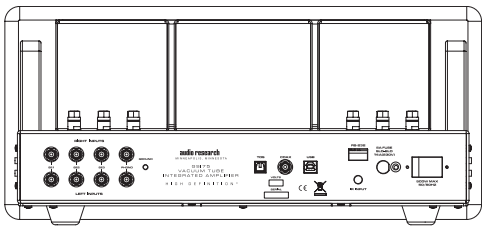
RATED OUTPUT:
Line: 2V RMS (1V RMS SE) into 200K ohms balanced load (maximum balanced output capability is 15V RMS at less
than .5% THD+N at 1KHz.)
Phono: 0.5V RMS into 200K load, Max output same as line stage.
Headphone: 6V RMS maximum into 30 to 300 ohm load.

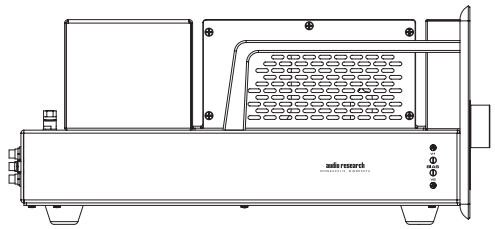
CONTROLS:
Volume, Input Selector. 5 Push Buttons: Power, Mute, SPKR Off, Mono, Menu.
Rear; RS-232 control, Remote IR input & Remote Trigger out.

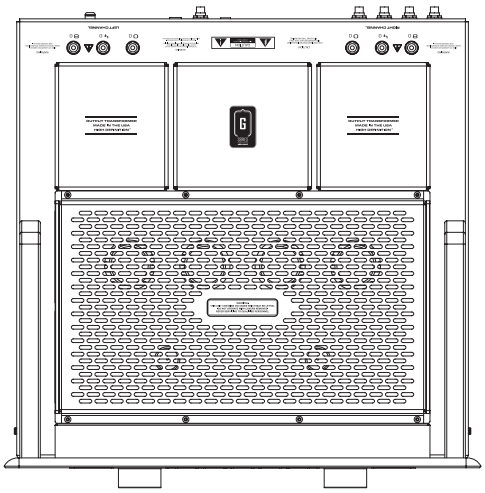
POWER SUPPLIES: Electronically regulated low and high voltage supplies.
Automatic 45 sec. warm-up & brown-out mute.
Line regulation better than .01%.

GSi75 Integrated Amplifier









POWER OUTPUT: 75 watts per channel continuous from 20Hz to 20kHz. 1 kHz total harmonic distortion typically 1.5% at 75 watts, .05% at 1 watt.
Approximate actual power available at "clipping" 80 watts (1kHz). (Note that actual power output is dependent upon both line voltage and "condition" i.e.: if power line has high distortion, maximum power will be affected adversely, although from a listening standpoint this is not very critical.)

POWER BANDWIDTH: (-3dB points) 12Hz to 70kHz.

FREQUENCY RESPONSE: (-3dB points at 1 watt) 1.0Hz to 70 kHz.

INPUT SENSITIVITY: 0.55V RMS Single-ended for rated output. (32.5dB gain into 8 ohms.)

INPUT IMPEDANCE: 52.5K ohms Single-ended.

INPUTS (5): 1, 2, 3, 4, 5 (Single Ended RCA connectors).

MAXIMUM INPUT: 10V RMS (any input).

OUTPUT POLARITY: Non-Inverting (any input).

OUTPUT TAPS: 8 ohms, 4 ohms.

OUTPUT REGULATION: Approximately 2dB 8 ohm load to open circuit (Damping factor approximately 4).

OVERALL NEGATIVE FEEDBACK: 4dB.

SLEW RATE: 10 volts/microsecond.

RISE TIME: 4 microseconds.

HUM & NOISE: Less than 1.0 mV RMS -88dB below rated output (IHF weighted, Vol down).

CONTROLS: Rotary volume (103 steps), Rotary input selector, Power, Mute, Bias.

DIGITAL SAMPLE RATES: 44.1kHz to 192kHz, SPDIF and USB 2.0 HS, DSD USB 2.0 HS

MASTER OSCILLATOR: 22.579mHz ±20Hz for 44.1, 88.2 & 176.4kHz. 24.576mHz ±20Hz for 48, 96 & 192kHz sample rates.

INTRINSIC JITTER: <10ps

POWER SUPPLIES: Electronically regulated Low and High voltage supplies for input stages. Automatic 40 sec. warm-up/brown-out mute.

POWER SUPPLY ENERGY STORAGE: Approximately 350 joules.

POWER REQUIREMENTS: 100-125VAC 60Hz (200-250VAC 50Hz) 400 watts at rated output, 600 watts maximum, 210 watts at "idle': 1.0 watt power off.

TUBES REQUIRED: 2-Matched pair KT150-Power Output; 2 -6H30 driver.

In 1970, **William Zane Johnson** founded Audio Research from a simple notion - that 'the [vacuum] tube is simply a better device for audio.' More than forty years later, **Audio Research is the world's oldest continuous manufacturer of high performance vacuum tube equipment** as well as one of America's oldest audio manufacturers. Performance and value have been core philosophies since the very beginning, and continue to drive the development and production of the entire product range today.
High Definition®, a registered trademark of Audio Research since 1970, long predates its contemporary associations, and expresses the goal for accuracy in music reproduction.

Today Audio Research represents one of the finest marques in the high-end industry. Products continue with the same core design principles and are considered by many as the finest devices for accurate and musical sound reproduction. **Every Audio Research product is designed and hand-built in Minnesota using as many locally sourced and domestic components as possible.** Each component receives a final listening test before it is considered a finished product, to ensure it sounds exactly like the original design. Quality, from start to finish, results in products built for generations of musical enjoyment. And with the ability to service virtually any product bearing the Audio Research logo, music lovers can rest assured their investment will remain with them as long as they care to own it.

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audio research
FINE SOUNDS GROUP

Take everything we know to go where you've never been

GS150 AMPLIFIER

Galileo Galilei explored the heavens
to reach new understanding.
Now explore your music in a new dimension
right in your own home.
Presenting the new G-Series from Audio Research.
Inspired by Galileo; in the tradition of Bill Johnson.
The G150 Power Amplifier,
the GSPre Preamplifier
and the GSi75 Integrated Amplifier.
Make a new discovery in High Definition®.

G SERIES
audio research